

[CATALYST PRECONDITIONING METHOD AND SYSTEM]

Abstract

Method and system for controlling an internal combustion engine of a vehicle where a catalyst is communicated to engine exhaust gases including predicting occurrence of an impending engine operating event that will change an exhaust constituent in the engine exhaust gases, determining an oxygen content of exhaust gases downstream of the catalyst, and adjusting an air-fuel ratio of the engine based on the determined oxygen content and the predicted engine operating event to precondition the catalyst prior to occurrence of the particular event.